

| | | | | | Accuracy | | | | | Av. Num Days | | | | | % Timeouts |
|----------|---------|----------|----------|----------|----------|------|------|------|------|--------------|-------|-------|-------|--------|------------|
| α | β | γ | δ | ω | min | q1 | med | q3 | max | min | q1 | med | q3 | max | |
| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.08 | 0.24 | 0.49 | 2.46 | 0.00 |
| 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 0.81 | 0.89 | 0.92 | 0.92 | 0.97 | 0.27 | 0.86 | 1.22 | 1.60 | 3.03 | 0.00 |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.84 | 0.94 | 0.95 | 0.97 | 0.97 | 0.03 | 0.22 | 0.51 | 0.86 | 2.68 | 0.00 |
| 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 0.86 | 0.95 | 0.97 | 0.97 | 0.97 | 0.03 | 0.11 | 0.27 | 0.51 | 1.97 | 0.00 |
| 25.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.84 | 0.00 |
| 50.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.84 | 0.00 |
| 75.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.84 | 0.00 |
| 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.84 | 0.00 |
| 1.00 | 0.25 | 1.00 | 1.00 | 1.00 | 0.89 | 0.95 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.56 | 6.70 | 0.00 |
| 1.00 | 0.50 | 1.00 | 1.00 | 1.00 | 0.92 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.16 | 0.00 |
| 1.00 | 0.75 | 1.00 | 1.00 | 1.00 | 0.92 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.68 | 0.00 |
| 1.00 | 25.00 | 1.00 | 1.00 | 1.00 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.08 | 0.24 | 0.44 | 1.73 | 0.00 |
| 1.00 | 50.00 | 1.00 | 1.00 | 1.00 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.08 | 0.24 | 0.44 | 1.73 | 0.00 |
| 1.00 | 75.00 | 1.00 | 1.00 | 1.00 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.08 | 0.24 | 0.44 | 1.73 | 0.00 |
| 1.00 | 100.00 | 1.00 | 1.00 | 1.00 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.08 | 0.24 | 0.44 | 1.73 | 0.00 |
| 1.00 | 1.00 | 0.25 | 1.00 | 1.00 | 0.89 | 0.97 | 0.97 | 0.97 | 1.00 | 0.00 | 0.08 | 0.23 | 0.42 | 1.41 | 0.00 |
| 1.00 | 1.00 | 0.50 | 1.00 | 1.00 | 0.89 | 0.97 | 0.97 | 0.97 | 1.00 | 0.00 | 0.08 | 0.24 | 0.46 | 1.41 | 0.00 |
| 1.00 | 1.00 | 0.75 | 1.00 | 1.00 | 0.89 | 0.97 | 0.97 | 0.97 | 1.00 | 0.00 | 0.08 | 0.24 | 0.42 | 1.84 | 0.00 |
| 1.00 | 1.00 | 25.00 | 1.00 | 1.00 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.08 | 0.24 | 0.49 | 1.97 | 0.00 |
| 1.00 | 1.00 | 50.00 | 1.00 | 1.00 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.08 | 0.24 | 0.49 | 1.97 | 0.00 |
| 1.00 | 1.00 | 75.00 | 1.00 | 1.00 | 0.89 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.08 | 0.24 | 0.47 | 1.70 | 0.00 |
| 1.00 | 1.00 | 100.00 | 1.00 | 1.00 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.08 | 0.24 | 0.49 | 1.97 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.25 | 1.00 | 0.92 | 0.97 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.11 | 1.57 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.92 | 0.97 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.11 | 1.57 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.75 | 1.00 | 0.92 | 0.97 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.11 | 1.57 | 0.00 |
| 1.00 | 1.00 | 1.00 | 25.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 75.14 | 84.40 | 91.30 | 96.03 | 112.38 | 0.00 |
| 1.00 | 1.00 | 1.00 | 50.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 75.14 | 84.40 | 91.30 | 96.03 | 112.38 | 0.00 |
| 1.00 | 1.00 | 1.00 | 75.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 75.14 | 84.40 | 91.30 | 96.03 | 112.38 | 0.00 |
| 1.00 | 1.00 | 1.00 | 100.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 75.14 | 84.40 | 91.30 | 96.03 | 112.38 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.25 | 0.89 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.08 | 0.23 | 0.42 | 1.70 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 0.89 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.08 | 0.23 | 0.42 | 1.70 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.75 | 0.89 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.08 | 0.23 | 0.42 | 1.70 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 25.00 | 0.84 | 0.95 | 0.95 | 0.95 | 0.97 | 0.03 | 0.24 | 0.45 | 0.68 | 2.73 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 50.00 | 0.84 | 0.95 | 0.95 | 0.95 | 0.97 | 0.03 | 0.24 | 0.45 | 0.68 | 2.73 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 75.00 | 0.84 | 0.95 | 0.95 | 0.95 | 0.97 | 0.03 | 0.24 | 0.45 | 0.68 | 2.73 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 0.84 | 0.95 | 0.95 | 0.95 | 0.97 | 0.03 | 0.24 | 0.45 | 0.68 | 2.73 | 0.00 |

Table 1: Simulation results for issue 5, with $p_{true} = 0.1$, $p_1 = 0.25$, $p_2 = 0$.

| | | | | | Accuracy | | | | | Av. Num Days | | | | | % Timeouts |
|----------|---------|----------|----------|----------|----------|------|------|------|------|--------------|-------|-------|-------|--------|------------|
| α | β | γ | δ | ω | min | q1 | med | q3 | max | min | q1 | med | q3 | max | |
| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.14 | 0.30 | 0.57 | 2.46 | 0.00 |
| 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 0.81 | 0.89 | 0.92 | 0.92 | 0.97 | 0.24 | 0.94 | 1.22 | 1.68 | 3.46 | 0.00 |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.81 | 0.92 | 0.95 | 0.95 | 0.97 | 0.03 | 0.24 | 0.57 | 0.95 | 2.68 | 0.00 |
| 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 0.84 | 0.94 | 0.97 | 0.97 | 0.97 | 0.03 | 0.14 | 0.35 | 0.68 | 2.30 | 0.00 |
| 25.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.84 | 0.00 |
| 50.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.84 | 0.00 |
| 75.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.84 | 0.00 |
| 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.84 | 0.00 |
| 1.00 | 0.25 | 1.00 | 1.00 | 1.00 | 0.89 | 0.95 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.50 | 6.70 | 0.00 |
| 1.00 | 0.50 | 1.00 | 1.00 | 1.00 | 0.92 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.19 | 0.00 |
| 1.00 | 0.75 | 1.00 | 1.00 | 1.00 | 0.92 | 0.97 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.28 | 1.95 | 0.00 |
| 1.00 | 25.00 | 1.00 | 1.00 | 1.00 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.14 | 0.30 | 0.54 | 2.24 | 0.00 |
| 1.00 | 50.00 | 1.00 | 1.00 | 1.00 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.14 | 0.30 | 0.54 | 2.24 | 0.00 |
| 1.00 | 75.00 | 1.00 | 1.00 | 1.00 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.14 | 0.30 | 0.54 | 2.24 | 0.00 |
| 1.00 | 100.00 | 1.00 | 1.00 | 1.00 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.14 | 0.30 | 0.54 | 2.24 | 0.00 |
| 1.00 | 1.00 | 0.25 | 1.00 | 1.00 | 0.89 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.13 | 0.28 | 0.51 | 1.32 | 0.00 |
| 1.00 | 1.00 | 0.50 | 1.00 | 1.00 | 0.89 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.13 | 0.30 | 0.51 | 1.46 | 0.00 |
| 1.00 | 1.00 | 0.75 | 1.00 | 1.00 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.14 | 0.30 | 0.54 | 2.24 | 0.00 |
| 1.00 | 1.00 | 25.00 | 1.00 | 1.00 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.14 | 0.30 | 0.57 | 1.95 | 0.00 |
| 1.00 | 1.00 | 50.00 | 1.00 | 1.00 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.14 | 0.30 | 0.57 | 1.95 | 0.00 |
| 1.00 | 1.00 | 75.00 | 1.00 | 1.00 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.14 | 0.30 | 0.54 | 2.24 | 0.00 |
| 1.00 | 1.00 | 100.00 | 1.00 | 1.00 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.14 | 0.30 | 0.57 | 1.95 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.25 | 1.00 | 0.89 | 0.97 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.41 | 2.14 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.89 | 0.97 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.41 | 2.14 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.75 | 1.00 | 0.89 | 0.97 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.41 | 2.14 | 0.00 |
| 1.00 | 1.00 | 1.00 | 25.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 75.14 | 84.40 | 91.30 | 96.00 | 112.81 | 0.00 |
| 1.00 | 1.00 | 1.00 | 50.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 75.14 | 84.40 | 91.30 | 96.00 | 112.81 | 0.00 |
| 1.00 | 1.00 | 1.00 | 75.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 75.14 | 84.40 | 91.30 | 96.00 | 112.81 | 0.00 |
| 1.00 | 1.00 | 1.00 | 100.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 75.14 | 84.40 | 91.30 | 96.00 | 112.81 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.25 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.14 | 0.30 | 0.57 | 2.24 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.14 | 0.30 | 0.57 | 2.24 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.75 | 0.86 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.14 | 0.30 | 0.57 | 2.24 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 25.00 | 0.84 | 0.92 | 0.95 | 0.95 | 0.97 | 0.05 | 0.30 | 0.51 | 0.78 | 2.73 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 50.00 | 0.84 | 0.92 | 0.95 | 0.95 | 0.97 | 0.05 | 0.30 | 0.51 | 0.78 | 2.73 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 75.00 | 0.84 | 0.92 | 0.95 | 0.95 | 0.97 | 0.05 | 0.30 | 0.51 | 0.78 | 2.73 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 0.84 | 0.92 | 0.95 | 0.95 | 0.97 | 0.05 | 0.30 | 0.51 | 0.78 | 2.73 | 0.00 |

Table 2: Simulation results for issue 5, with $p_{true} = 0.1$, $p_1 = 0.5$, $p_2 = 0$.

| | | | | | Accuracy | | | | | Av. Num Days | | | | | % Timeouts |
|----------|---------|----------|----------|----------|----------|------|------|------|------|--------------|-------|-------|-------|--------|------------|
| α | β | γ | δ | ω | min | q1 | med | q3 | max | min | q1 | med | q3 | max | |
| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.81 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.19 | 0.35 | 0.76 | 2.46 | 0.00 |
| 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 0.81 | 0.86 | 0.89 | 0.92 | 0.97 | 0.27 | 1.02 | 1.39 | 1.88 | 3.46 | 0.00 |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.81 | 0.89 | 0.92 | 0.95 | 0.97 | 0.03 | 0.27 | 0.76 | 1.30 | 2.68 | 0.00 |
| 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 0.81 | 0.92 | 0.95 | 0.97 | 0.97 | 0.03 | 0.19 | 0.42 | 0.95 | 2.30 | 0.00 |
| 25.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.84 | 0.00 |
| 50.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.84 | 0.00 |
| 75.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.92 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.51 | 0.00 |
| 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.92 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.51 | 0.00 |
| 1.00 | 0.25 | 1.00 | 1.00 | 1.00 | 0.89 | 0.95 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.68 | 6.70 | 0.00 |
| 1.00 | 0.50 | 1.00 | 1.00 | 1.00 | 0.92 | 0.97 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.27 | 2.19 | 0.00 |
| 1.00 | 0.75 | 1.00 | 1.00 | 1.00 | 0.92 | 0.97 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.47 | 1.95 | 0.00 |
| 1.00 | 25.00 | 1.00 | 1.00 | 1.00 | 0.81 | 0.95 | 0.95 | 0.97 | 1.00 | 0.00 | 0.18 | 0.35 | 0.69 | 2.24 | 0.00 |
| 1.00 | 50.00 | 1.00 | 1.00 | 1.00 | 0.81 | 0.95 | 0.95 | 0.97 | 1.00 | 0.00 | 0.18 | 0.35 | 0.69 | 2.24 | 0.00 |
| 1.00 | 75.00 | 1.00 | 1.00 | 1.00 | 0.81 | 0.95 | 0.95 | 0.97 | 1.00 | 0.00 | 0.18 | 0.35 | 0.69 | 2.24 | 0.00 |
| 1.00 | 100.00 | 1.00 | 1.00 | 1.00 | 0.81 | 0.95 | 0.95 | 0.97 | 1.00 | 0.00 | 0.18 | 0.35 | 0.69 | 2.24 | 0.00 |
| 1.00 | 1.00 | 0.25 | 1.00 | 1.00 | 0.89 | 0.95 | 0.97 | 0.97 | 1.00 | 0.00 | 0.16 | 0.30 | 0.61 | 1.62 | 0.00 |
| 1.00 | 1.00 | 0.50 | 1.00 | 1.00 | 0.89 | 0.95 | 0.95 | 0.97 | 1.00 | 0.00 | 0.18 | 0.34 | 0.60 | 2.35 | 0.00 |
| 1.00 | 1.00 | 0.75 | 1.00 | 1.00 | 0.86 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.18 | 0.32 | 0.67 | 2.24 | 0.00 |
| 1.00 | 1.00 | 25.00 | 1.00 | 1.00 | 0.84 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.19 | 0.41 | 1.05 | 2.65 | 0.00 |
| 1.00 | 1.00 | 50.00 | 1.00 | 1.00 | 0.84 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.19 | 0.41 | 1.05 | 2.65 | 0.00 |
| 1.00 | 1.00 | 75.00 | 1.00 | 1.00 | 0.84 | 0.95 | 0.95 | 0.97 | 1.00 | 0.00 | 0.16 | 0.35 | 0.80 | 2.24 | 0.00 |
| 1.00 | 1.00 | 100.00 | 1.00 | 1.00 | 0.84 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.19 | 0.41 | 1.05 | 2.65 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.25 | 1.00 | 0.84 | 0.95 | 0.97 | 1.00 | 1.00 | 0.00 | 0.00 | 0.15 | 0.57 | 2.14 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.84 | 0.95 | 0.97 | 1.00 | 1.00 | 0.00 | 0.00 | 0.15 | 0.57 | 2.14 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.75 | 1.00 | 0.84 | 0.95 | 0.97 | 1.00 | 1.00 | 0.00 | 0.00 | 0.15 | 0.57 | 2.14 | 0.00 |
| 1.00 | 1.00 | 1.00 | 25.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 75.16 | 84.40 | 91.30 | 96.00 | 112.81 | 0.00 |
| 1.00 | 1.00 | 1.00 | 50.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 75.16 | 84.40 | 91.30 | 96.00 | 112.81 | 0.00 |
| 1.00 | 1.00 | 1.00 | 75.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 75.16 | 84.40 | 91.30 | 96.00 | 112.81 | 0.00 |
| 1.00 | 1.00 | 1.00 | 100.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 75.16 | 84.40 | 91.30 | 96.00 | 112.81 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.25 | 0.84 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.19 | 0.35 | 0.76 | 2.65 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 0.84 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.19 | 0.35 | 0.76 | 2.65 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.75 | 0.84 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.19 | 0.35 | 0.76 | 2.65 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 25.00 | 0.78 | 0.92 | 0.93 | 0.95 | 1.00 | 0.00 | 0.34 | 0.58 | 0.87 | 2.73 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 50.00 | 0.78 | 0.92 | 0.93 | 0.95 | 1.00 | 0.00 | 0.34 | 0.58 | 0.87 | 2.73 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 75.00 | 0.78 | 0.92 | 0.93 | 0.95 | 1.00 | 0.00 | 0.34 | 0.58 | 0.87 | 2.73 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 0.78 | 0.92 | 0.93 | 0.95 | 1.00 | 0.00 | 0.34 | 0.58 | 0.87 | 2.73 | 0.00 |

Table 3: Simulation results for issue 5, with $p_{true} = 0.1$, $p_1 = 0.75$, $p_2 = 0$.

| | | | | | Accuracy | | | | | Av. Num Days | | | | | % Timeouts |
|----------|---------|----------|----------|----------|----------|------|------|------|------|--------------|-------|-------|-------|--------|------------|
| α | β | γ | δ | ω | min | q1 | med | q3 | max | min | q1 | med | q3 | max | |
| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.81 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.24 | 0.46 | 0.91 | 2.46 | 0.00 |
| 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 0.81 | 0.86 | 0.89 | 0.92 | 0.95 | 0.27 | 1.08 | 1.42 | 1.98 | 3.46 | 0.00 |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.81 | 0.89 | 0.92 | 0.95 | 0.97 | 0.03 | 0.40 | 0.84 | 1.39 | 2.68 | 0.00 |
| 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 0.81 | 0.92 | 0.95 | 0.95 | 0.97 | 0.03 | 0.27 | 0.59 | 1.11 | 2.30 | 0.00 |
| 25.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.84 | 0.00 |
| 50.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.84 | 0.00 |
| 75.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.92 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.51 | 0.00 |
| 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.92 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.51 | 0.00 |
| 1.00 | 0.25 | 1.00 | 1.00 | 1.00 | 0.89 | 0.95 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.68 | 6.70 | 0.00 |
| 1.00 | 0.50 | 1.00 | 1.00 | 1.00 | 0.92 | 0.97 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.53 | 2.19 | 0.00 |
| 1.00 | 0.75 | 1.00 | 1.00 | 1.00 | 0.92 | 0.97 | 0.97 | 1.00 | 1.00 | 0.00 | 0.00 | 0.24 | 0.59 | 1.95 | 0.00 |
| 1.00 | 25.00 | 1.00 | 1.00 | 1.00 | 0.81 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.24 | 0.46 | 0.76 | 2.24 | 0.00 |
| 1.00 | 50.00 | 1.00 | 1.00 | 1.00 | 0.81 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.24 | 0.46 | 0.76 | 2.24 | 0.00 |
| 1.00 | 75.00 | 1.00 | 1.00 | 1.00 | 0.81 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.24 | 0.46 | 0.76 | 2.24 | 0.00 |
| 1.00 | 100.00 | 1.00 | 1.00 | 1.00 | 0.81 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.24 | 0.46 | 0.76 | 2.24 | 0.00 |
| 1.00 | 1.00 | 0.25 | 1.00 | 1.00 | 0.89 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.19 | 0.39 | 0.66 | 1.70 | 0.00 |
| 1.00 | 1.00 | 0.50 | 1.00 | 1.00 | 0.89 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.24 | 0.41 | 0.68 | 1.70 | 0.00 |
| 1.00 | 1.00 | 0.75 | 1.00 | 1.00 | 0.86 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.24 | 0.41 | 0.76 | 2.57 | 0.00 |
| 1.00 | 1.00 | 25.00 | 1.00 | 1.00 | 0.84 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.27 | 0.51 | 1.14 | 2.65 | 0.00 |
| 1.00 | 1.00 | 50.00 | 1.00 | 1.00 | 0.84 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.27 | 0.51 | 1.14 | 2.65 | 0.00 |
| 1.00 | 1.00 | 75.00 | 1.00 | 1.00 | 0.84 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.26 | 0.45 | 0.94 | 2.24 | 0.00 |
| 1.00 | 1.00 | 100.00 | 1.00 | 1.00 | 0.84 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.27 | 0.51 | 1.14 | 2.65 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.25 | 1.00 | 0.84 | 0.95 | 0.97 | 0.98 | 1.00 | 0.00 | 0.02 | 0.32 | 0.74 | 2.14 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.84 | 0.95 | 0.97 | 0.98 | 1.00 | 0.00 | 0.02 | 0.32 | 0.74 | 2.14 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.75 | 1.00 | 0.84 | 0.95 | 0.97 | 0.98 | 1.00 | 0.00 | 0.02 | 0.32 | 0.74 | 2.14 | 0.00 |
| 1.00 | 1.00 | 1.00 | 25.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 75.16 | 84.40 | 91.30 | 96.06 | 112.81 | 0.00 |
| 1.00 | 1.00 | 1.00 | 50.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 75.16 | 84.40 | 91.30 | 96.06 | 112.81 | 0.00 |
| 1.00 | 1.00 | 1.00 | 75.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 75.16 | 84.40 | 91.30 | 96.06 | 112.81 | 0.00 |
| 1.00 | 1.00 | 1.00 | 100.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 75.16 | 84.40 | 91.30 | 96.06 | 112.81 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.25 | 0.84 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.24 | 0.50 | 1.03 | 2.65 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 0.84 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.24 | 0.50 | 1.03 | 2.65 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.75 | 0.84 | 0.92 | 0.95 | 0.97 | 1.00 | 0.00 | 0.24 | 0.50 | 1.03 | 2.65 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 25.00 | 0.78 | 0.89 | 0.92 | 0.95 | 0.97 | 0.08 | 0.38 | 0.73 | 1.11 | 2.73 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 50.00 | 0.78 | 0.89 | 0.92 | 0.95 | 0.97 | 0.08 | 0.38 | 0.73 | 1.11 | 2.73 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 75.00 | 0.78 | 0.89 | 0.92 | 0.95 | 0.97 | 0.08 | 0.38 | 0.73 | 1.11 | 2.73 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 0.78 | 0.89 | 0.92 | 0.95 | 0.97 | 0.08 | 0.38 | 0.73 | 1.11 | 2.73 | 0.00 |

Table 4: Simulation results for issue 5, with $p_{true} = 0.1$, $p_1 = 1$, $p_2 = 0$.

| | | | | | Accuracy | | | | | Av. Num Days | | | | | % Timeouts |
|----------|---------|----------|----------|----------|----------|------|------|------|------|--------------|-------|-------|-------|--------|------------|
| α | β | γ | δ | ω | min | q1 | med | q3 | max | min | q1 | med | q3 | max | |
| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.02 | 0.04 | 0.06 | 0.24 | 0.00 |
| 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 0.91 | 0.95 | 0.96 | 0.97 | 0.97 | 0.06 | 0.17 | 0.25 | 0.35 | 0.70 | 0.00 |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.93 | 0.97 | 0.98 | 0.98 | 0.99 | 0.01 | 0.04 | 0.07 | 0.15 | 0.32 | 0.00 |
| 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.97 | 0.98 | 0.99 | 0.99 | 0.01 | 0.03 | 0.05 | 0.12 | 0.32 | 0.00 |
| 25.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.75 | 1.00 | 1.00 | 1.00 | 0.98 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 |
| 1.00 | 25.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.04 | 0.07 | 0.19 | 0.00 |
| 1.00 | 50.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.97 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.04 | 0.07 | 0.19 | 0.00 |
| 1.00 | 75.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.97 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.04 | 0.07 | 0.19 | 0.00 |
| 1.00 | 100.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.97 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.04 | 0.07 | 0.19 | 0.00 |
| 1.00 | 1.00 | 0.25 | 1.00 | 1.00 | 0.95 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.02 | 0.04 | 0.07 | 0.29 | 0.00 |
| 1.00 | 1.00 | 0.50 | 1.00 | 1.00 | 0.95 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.02 | 0.04 | 0.08 | 0.20 | 0.00 |
| 1.00 | 1.00 | 0.75 | 1.00 | 1.00 | 0.95 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.02 | 0.04 | 0.08 | 0.30 | 0.00 |
| 1.00 | 1.00 | 25.00 | 1.00 | 1.00 | 0.95 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.02 | 0.03 | 0.06 | 0.32 | 0.00 |
| 1.00 | 1.00 | 50.00 | 1.00 | 1.00 | 0.95 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.03 | 0.06 | 0.32 | 0.00 |
| 1.00 | 1.00 | 75.00 | 1.00 | 1.00 | 0.95 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.03 | 0.06 | 0.29 | 0.00 |
| 1.00 | 1.00 | 100.00 | 1.00 | 1.00 | 0.95 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.03 | 0.06 | 0.32 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.25 | 1.00 | 0.95 | 0.98 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.02 | 0.05 | 0.28 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.95 | 0.98 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.02 | 0.05 | 0.28 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.75 | 1.00 | 0.95 | 0.98 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.02 | 0.05 | 0.28 | 0.00 |
| 1.00 | 1.00 | 1.00 | 25.00 | 1.00 | 0.47 | 0.53 | 0.55 | 0.58 | 0.64 | 11.40 | 16.17 | 18.56 | 20.80 | 25.83 | 0.00 |
| 1.00 | 1.00 | 1.00 | 50.00 | 1.00 | 0.00 | 0.09 | 0.11 | 0.14 | 0.20 | 59.10 | 68.96 | 73.95 | 77.57 | 87.79 | 0.00 |
| 1.00 | 1.00 | 1.00 | 75.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 81.68 | 89.15 | 92.45 | 94.93 | 103.87 | 0.00 |
| 1.00 | 1.00 | 1.00 | 100.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 81.68 | 89.15 | 92.45 | 94.93 | 103.87 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.25 | 0.95 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.02 | 0.04 | 0.07 | 0.24 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 0.95 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.02 | 0.04 | 0.07 | 0.24 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.75 | 0.95 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.02 | 0.04 | 0.07 | 0.24 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 25.00 | 0.95 | 0.97 | 0.98 | 0.98 | 1.00 | 0.00 | 0.04 | 0.06 | 0.09 | 0.24 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 50.00 | 0.95 | 0.97 | 0.98 | 0.98 | 1.00 | 0.00 | 0.04 | 0.06 | 0.09 | 0.24 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 75.00 | 0.95 | 0.97 | 0.98 | 0.98 | 1.00 | 0.00 | 0.04 | 0.06 | 0.09 | 0.24 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 0.95 | 0.97 | 0.98 | 0.98 | 1.00 | 0.00 | 0.04 | 0.06 | 0.09 | 0.24 | 0.00 |

Table 5: Simulation results for issue 5, with $p_{true} = 0.3$, $p_1 = 0.25$, $p_2 = 0$.

| | | | | | Accuracy | | | | | Av. Num Days | | | | | % Timeouts |
|----------|---------|----------|----------|----------|----------|------|------|------|------|--------------|-------|-------|-------|--------|------------|
| α | β | γ | δ | ω | min | q1 | med | q3 | max | min | q1 | med | q3 | max | |
| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.97 | 0.97 | 0.98 | 1.00 | 0.00 | 0.03 | 0.06 | 0.13 | 0.30 | 0.00 |
| 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 0.91 | 0.94 | 0.95 | 0.95 | 0.97 | 0.07 | 0.20 | 0.29 | 0.38 | 0.76 | 0.00 |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.92 | 0.95 | 0.96 | 0.97 | 0.99 | 0.01 | 0.08 | 0.13 | 0.21 | 0.48 | 0.00 |
| 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 0.93 | 0.95 | 0.97 | 0.98 | 0.99 | 0.01 | 0.07 | 0.11 | 0.15 | 0.45 | 0.00 |
| 25.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.50 | 1.00 | 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 |
| 1.00 | 0.75 | 1.00 | 1.00 | 1.00 | 0.98 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 |
| 1.00 | 25.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.04 | 0.08 | 0.12 | 0.28 | 0.00 |
| 1.00 | 50.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.04 | 0.08 | 0.12 | 0.28 | 0.00 |
| 1.00 | 75.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.04 | 0.08 | 0.12 | 0.28 | 0.00 |
| 1.00 | 100.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.04 | 0.08 | 0.12 | 0.28 | 0.00 |
| 1.00 | 1.00 | 0.25 | 1.00 | 1.00 | 0.95 | 0.97 | 0.98 | 0.98 | 1.00 | 0.00 | 0.03 | 0.07 | 0.11 | 0.25 | 0.00 |
| 1.00 | 1.00 | 0.50 | 1.00 | 1.00 | 0.95 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.05 | 0.08 | 0.13 | 0.28 | 0.00 |
| 1.00 | 1.00 | 0.75 | 1.00 | 1.00 | 0.94 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.05 | 0.08 | 0.13 | 0.30 | 0.00 |
| 1.00 | 1.00 | 25.00 | 1.00 | 1.00 | 0.94 | 0.97 | 0.98 | 0.98 | 1.00 | 0.00 | 0.03 | 0.07 | 0.11 | 0.30 | 0.00 |
| 1.00 | 1.00 | 50.00 | 1.00 | 1.00 | 0.94 | 0.97 | 0.98 | 0.98 | 1.00 | 0.00 | 0.03 | 0.07 | 0.11 | 0.37 | 0.00 |
| 1.00 | 1.00 | 75.00 | 1.00 | 1.00 | 0.95 | 0.97 | 0.98 | 0.98 | 1.00 | 0.00 | 0.03 | 0.06 | 0.10 | 0.37 | 0.00 |
| 1.00 | 1.00 | 100.00 | 1.00 | 1.00 | 0.94 | 0.97 | 0.98 | 0.98 | 1.00 | 0.00 | 0.03 | 0.07 | 0.11 | 0.37 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.25 | 1.00 | 0.95 | 0.97 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.06 | 0.11 | 0.32 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.95 | 0.97 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.06 | 0.11 | 0.32 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.75 | 1.00 | 0.95 | 0.97 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.06 | 0.11 | 0.32 | 0.00 |
| 1.00 | 1.00 | 1.00 | 25.00 | 1.00 | 0.46 | 0.52 | 0.54 | 0.57 | 0.62 | 11.91 | 16.61 | 18.68 | 20.99 | 26.13 | 0.00 |
| 1.00 | 1.00 | 1.00 | 50.00 | 1.00 | 0.00 | 0.08 | 0.11 | 0.14 | 0.20 | 59.10 | 69.48 | 73.96 | 77.63 | 87.79 | 0.00 |
| 1.00 | 1.00 | 1.00 | 75.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 81.68 | 89.15 | 92.44 | 94.93 | 103.87 | 0.00 |
| 1.00 | 1.00 | 1.00 | 100.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 81.68 | 89.15 | 92.44 | 94.93 | 103.87 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.25 | 0.94 | 0.97 | 0.97 | 0.98 | 1.00 | 0.00 | 0.03 | 0.08 | 0.11 | 0.30 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 0.94 | 0.97 | 0.97 | 0.98 | 1.00 | 0.00 | 0.03 | 0.08 | 0.11 | 0.30 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.75 | 0.94 | 0.97 | 0.97 | 0.98 | 1.00 | 0.00 | 0.03 | 0.08 | 0.11 | 0.30 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 25.00 | 0.94 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.06 | 0.09 | 0.14 | 0.30 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 50.00 | 0.94 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.06 | 0.09 | 0.14 | 0.30 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 75.00 | 0.94 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.06 | 0.09 | 0.14 | 0.30 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 0.94 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.06 | 0.09 | 0.14 | 0.30 | 0.00 |

Table 6: Simulation results for issue 5, with $p_{true} = 0.3$, $p_1 = 0.5$, $p_2 = 0$.

| | | | | | Accuracy | | | | | Av. Num Days | | | | | % Timeouts |
|----------|---------|----------|----------|----------|----------|------|------|------|------|--------------|-------|-------|-------|--------|------------|
| α | β | γ | δ | ω | min | q1 | med | q3 | max | min | q1 | med | q3 | max | |
| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.06 | 0.10 | 0.15 | 0.28 | 0.00 |
| 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 0.88 | 0.93 | 0.94 | 0.95 | 0.97 | 0.05 | 0.27 | 0.36 | 0.46 | 0.89 | 0.00 |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.90 | 0.95 | 0.95 | 0.96 | 0.99 | 0.01 | 0.11 | 0.20 | 0.27 | 0.66 | 0.00 |
| 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 0.90 | 0.95 | 0.95 | 0.96 | 0.99 | 0.01 | 0.10 | 0.17 | 0.25 | 0.59 | 0.00 |
| 25.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.50 | 1.00 | 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 |
| 1.00 | 0.75 | 1.00 | 1.00 | 1.00 | 0.98 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 |
| 1.00 | 25.00 | 1.00 | 1.00 | 1.00 | 0.92 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.07 | 0.11 | 0.16 | 0.57 | 0.00 |
| 1.00 | 50.00 | 1.00 | 1.00 | 1.00 | 0.92 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.07 | 0.11 | 0.16 | 0.57 | 0.00 |
| 1.00 | 75.00 | 1.00 | 1.00 | 1.00 | 0.92 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.07 | 0.11 | 0.16 | 0.57 | 0.00 |
| 1.00 | 100.00 | 1.00 | 1.00 | 1.00 | 0.92 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.07 | 0.11 | 0.16 | 0.57 | 0.00 |
| 1.00 | 1.00 | 0.25 | 1.00 | 1.00 | 0.94 | 0.96 | 0.96 | 0.97 | 1.00 | 0.00 | 0.07 | 0.10 | 0.14 | 0.33 | 0.00 |
| 1.00 | 1.00 | 0.50 | 1.00 | 1.00 | 0.94 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.07 | 0.12 | 0.17 | 0.35 | 0.00 |
| 1.00 | 1.00 | 0.75 | 1.00 | 1.00 | 0.94 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.07 | 0.12 | 0.18 | 0.34 | 0.00 |
| 1.00 | 1.00 | 25.00 | 1.00 | 1.00 | 0.95 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.05 | 0.10 | 0.15 | 0.33 | 0.00 |
| 1.00 | 1.00 | 50.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.05 | 0.10 | 0.15 | 0.35 | 0.00 |
| 1.00 | 1.00 | 75.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.05 | 0.09 | 0.13 | 0.33 | 0.00 |
| 1.00 | 1.00 | 100.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.05 | 0.10 | 0.15 | 0.35 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.25 | 1.00 | 0.94 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.05 | 0.09 | 0.13 | 0.29 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.94 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.05 | 0.09 | 0.13 | 0.29 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.75 | 1.00 | 0.94 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.05 | 0.09 | 0.13 | 0.29 | 0.00 |
| 1.00 | 1.00 | 1.00 | 25.00 | 1.00 | 0.45 | 0.51 | 0.54 | 0.56 | 0.64 | 11.88 | 16.60 | 18.68 | 20.98 | 25.86 | 0.00 |
| 1.00 | 1.00 | 1.00 | 50.00 | 1.00 | 0.00 | 0.08 | 0.11 | 0.13 | 0.20 | 59.10 | 69.74 | 74.49 | 77.72 | 87.79 | 0.00 |
| 1.00 | 1.00 | 1.00 | 75.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 81.68 | 89.15 | 92.45 | 94.93 | 103.88 | 0.00 |
| 1.00 | 1.00 | 1.00 | 100.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 81.68 | 89.15 | 92.45 | 94.93 | 103.88 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.25 | 0.94 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.07 | 0.10 | 0.15 | 0.28 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 0.94 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.07 | 0.10 | 0.15 | 0.28 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.75 | 0.94 | 0.96 | 0.97 | 0.98 | 1.00 | 0.00 | 0.07 | 0.10 | 0.15 | 0.28 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 25.00 | 0.93 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.09 | 0.13 | 0.18 | 0.29 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 50.00 | 0.93 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.09 | 0.13 | 0.18 | 0.29 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 75.00 | 0.93 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.09 | 0.13 | 0.18 | 0.29 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 0.93 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.09 | 0.13 | 0.18 | 0.29 | 0.00 |

Table 7: Simulation results for issue 5, with $p_{true} = 0.3$, $p_1 = 0.75$, $p_2 = 0$.

| | | | | | Accuracy | | | | | Av. Num Days | | | | | % Timeouts |
|----------|---------|----------|----------|----------|----------|------|------|------|------|--------------|-------|-------|-------|--------|------------|
| α | β | γ | δ | ω | min | q1 | med | q3 | max | min | q1 | med | q3 | max | |
| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.92 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.08 | 0.14 | 0.18 | 0.43 | 0.00 |
| 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 0.88 | 0.91 | 0.93 | 0.94 | 0.97 | 0.08 | 0.30 | 0.40 | 0.51 | 0.89 | 0.00 |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.90 | 0.93 | 0.95 | 0.95 | 0.99 | 0.01 | 0.16 | 0.24 | 0.32 | 0.61 | 0.00 |
| 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 0.90 | 0.94 | 0.95 | 0.96 | 0.99 | 0.01 | 0.13 | 0.21 | 0.30 | 0.56 | 0.00 |
| 25.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.50 | 1.00 | 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 |
| 1.00 | 0.75 | 1.00 | 1.00 | 1.00 | 0.98 | 0.99 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.21 | 0.00 |
| 1.00 | 25.00 | 1.00 | 1.00 | 1.00 | 0.92 | 0.95 | 0.95 | 0.96 | 1.00 | 0.00 | 0.09 | 0.14 | 0.20 | 0.51 | 0.00 |
| 1.00 | 50.00 | 1.00 | 1.00 | 1.00 | 0.92 | 0.95 | 0.95 | 0.96 | 1.00 | 0.00 | 0.10 | 0.15 | 0.20 | 0.51 | 0.00 |
| 1.00 | 75.00 | 1.00 | 1.00 | 1.00 | 0.92 | 0.95 | 0.95 | 0.96 | 1.00 | 0.00 | 0.10 | 0.15 | 0.20 | 0.51 | 0.00 |
| 1.00 | 100.00 | 1.00 | 1.00 | 1.00 | 0.92 | 0.95 | 0.95 | 0.96 | 1.00 | 0.00 | 0.10 | 0.15 | 0.20 | 0.51 | 0.00 |
| 1.00 | 1.00 | 0.25 | 1.00 | 1.00 | 0.93 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.08 | 0.13 | 0.18 | 0.33 | 0.00 |
| 1.00 | 1.00 | 0.50 | 1.00 | 1.00 | 0.92 | 0.95 | 0.95 | 0.96 | 1.00 | 0.00 | 0.10 | 0.14 | 0.20 | 0.38 | 0.00 |
| 1.00 | 1.00 | 0.75 | 1.00 | 1.00 | 0.93 | 0.95 | 0.95 | 0.96 | 1.00 | 0.00 | 0.10 | 0.14 | 0.20 | 0.38 | 0.00 |
| 1.00 | 1.00 | 25.00 | 1.00 | 1.00 | 0.92 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.09 | 0.14 | 0.19 | 0.43 | 0.00 |
| 1.00 | 1.00 | 50.00 | 1.00 | 1.00 | 0.91 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.09 | 0.14 | 0.20 | 0.45 | 0.00 |
| 1.00 | 1.00 | 75.00 | 1.00 | 1.00 | 0.91 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.07 | 0.12 | 0.16 | 0.37 | 0.00 |
| 1.00 | 1.00 | 100.00 | 1.00 | 1.00 | 0.91 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.09 | 0.14 | 0.20 | 0.45 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.25 | 1.00 | 0.93 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.07 | 0.12 | 0.17 | 0.33 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.93 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.07 | 0.12 | 0.17 | 0.33 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.75 | 1.00 | 0.93 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.07 | 0.12 | 0.17 | 0.33 | 0.00 |
| 1.00 | 1.00 | 1.00 | 25.00 | 1.00 | 0.45 | 0.50 | 0.53 | 0.55 | 0.62 | 11.95 | 16.73 | 18.76 | 21.13 | 26.15 | 0.00 |
| 1.00 | 1.00 | 1.00 | 50.00 | 1.00 | 0.00 | 0.08 | 0.11 | 0.13 | 0.20 | 59.10 | 69.64 | 74.18 | 77.85 | 87.79 | 0.00 |
| 1.00 | 1.00 | 1.00 | 75.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 81.68 | 89.15 | 92.45 | 94.93 | 103.88 | 0.00 |
| 1.00 | 1.00 | 1.00 | 100.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 81.68 | 89.15 | 92.45 | 94.93 | 103.88 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.25 | 0.92 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.09 | 0.13 | 0.16 | 0.36 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 0.92 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.09 | 0.13 | 0.16 | 0.36 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.75 | 0.92 | 0.95 | 0.96 | 0.97 | 1.00 | 0.00 | 0.09 | 0.13 | 0.16 | 0.36 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 25.00 | 0.92 | 0.95 | 0.95 | 0.96 | 1.00 | 0.00 | 0.11 | 0.16 | 0.21 | 0.38 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 50.00 | 0.92 | 0.95 | 0.95 | 0.96 | 1.00 | 0.00 | 0.11 | 0.16 | 0.21 | 0.38 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 75.00 | 0.92 | 0.95 | 0.95 | 0.96 | 1.00 | 0.00 | 0.11 | 0.16 | 0.21 | 0.38 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 0.92 | 0.95 | 0.95 | 0.96 | 1.00 | 0.00 | 0.11 | 0.16 | 0.21 | 0.38 | 0.00 |

Table 8: Simulation results for issue 5, with $p_{true} = 0.3$, $p_1 = 1$, $p_2 = 0$.

| | | | | | Accuracy | | | | | Av. Num Days | | | | | % Timeouts |
|----------|---------|----------|----------|----------|----------|------|------|------|------|--------------|-------|-------|-------|--------|------------|
| α | β | γ | δ | ω | min | q1 | med | q3 | max | min | q1 | med | q3 | max | |
| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.97 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.11 | 0.00 |
| 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.97 | 0.98 | 0.98 | 0.03 | 0.06 | 0.09 | 0.14 | 0.24 | 0.00 |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.97 | 0.98 | 0.99 | 0.99 | 0.01 | 0.02 | 0.04 | 0.07 | 0.14 | 0.00 |
| 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.98 | 0.98 | 0.99 | 0.99 | 0.01 | 0.02 | 0.03 | 0.06 | 0.14 | 0.00 |
| 25.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.75 | 1.00 | 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 1.00 | 25.00 | 1.00 | 1.00 | 1.00 | 0.96 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.04 | 0.12 | 0.00 |
| 1.00 | 50.00 | 1.00 | 1.00 | 1.00 | 0.96 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.04 | 0.12 | 0.00 |
| 1.00 | 75.00 | 1.00 | 1.00 | 1.00 | 0.96 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.04 | 0.12 | 0.00 |
| 1.00 | 100.00 | 1.00 | 1.00 | 1.00 | 0.96 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.04 | 0.12 | 0.00 |
| 1.00 | 1.00 | 0.25 | 1.00 | 1.00 | 0.96 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.03 | 0.05 | 0.12 | 0.00 |
| 1.00 | 1.00 | 0.50 | 1.00 | 1.00 | 0.96 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.02 | 0.03 | 0.05 | 0.16 | 0.00 |
| 1.00 | 1.00 | 0.75 | 1.00 | 1.00 | 0.96 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.02 | 0.03 | 0.05 | 0.16 | 0.00 |
| 1.00 | 1.00 | 25.00 | 1.00 | 1.00 | 0.97 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.11 | 0.00 |
| 1.00 | 1.00 | 50.00 | 1.00 | 1.00 | 0.97 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.11 | 0.00 |
| 1.00 | 1.00 | 75.00 | 1.00 | 1.00 | 0.97 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.11 | 0.00 |
| 1.00 | 1.00 | 100.00 | 1.00 | 1.00 | 0.97 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.10 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.25 | 1.00 | 0.97 | 0.99 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.10 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.97 | 0.99 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.10 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.75 | 1.00 | 0.97 | 0.99 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.10 | 0.00 |
| 1.00 | 1.00 | 1.00 | 25.00 | 1.00 | 0.67 | 0.69 | 0.71 | 0.75 | 0.81 | 2.41 | 6.00 | 8.10 | 8.73 | 9.57 | 0.00 |
| 1.00 | 1.00 | 1.00 | 50.00 | 1.00 | 0.38 | 0.46 | 0.48 | 0.50 | 0.55 | 19.17 | 23.07 | 24.34 | 27.94 | 35.17 | 0.00 |
| 1.00 | 1.00 | 1.00 | 75.00 | 1.00 | 0.13 | 0.17 | 0.18 | 0.21 | 0.28 | 47.24 | 58.14 | 62.12 | 64.68 | 68.03 | 0.00 |
| 1.00 | 1.00 | 1.00 | 100.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 86.66 | 90.65 | 92.53 | 94.90 | 100.84 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.25 | 0.97 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.11 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 0.97 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.11 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.75 | 0.97 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.11 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 25.00 | 0.97 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.03 | 0.04 | 0.11 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 50.00 | 0.97 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.03 | 0.04 | 0.11 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 75.00 | 0.97 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.03 | 0.04 | 0.11 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 0.97 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.03 | 0.04 | 0.11 | 0.00 |

Table 9: Simulation results for issue 5, with $p_{true} = 0.5$, $p_1 = 0.25$, $p_2 = 0$.

| | | | | | Accuracy | | | | | Av. Num Days | | | | | % Timeouts |
|----------|---------|----------|----------|----------|----------|------|------|------|------|--------------|-------|-------|-------|--------|------------|
| α | β | γ | δ | ω | min | q1 | med | q3 | max | min | q1 | med | q3 | max | |
| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.96 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.04 | 0.06 | 0.13 | 0.00 |
| 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 0.92 | 0.95 | 0.96 | 0.97 | 0.98 | 0.04 | 0.10 | 0.13 | 0.17 | 0.25 | 0.00 |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.93 | 0.96 | 0.97 | 0.98 | 0.99 | 0.01 | 0.04 | 0.08 | 0.11 | 0.23 | 0.00 |
| 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 0.93 | 0.96 | 0.97 | 0.98 | 0.99 | 0.01 | 0.04 | 0.07 | 0.10 | 0.21 | 0.00 |
| 25.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.75 | 1.00 | 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 1.00 | 25.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.97 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.04 | 0.06 | 0.16 | 0.00 |
| 1.00 | 50.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.97 | 0.98 | 0.99 | 1.00 | 0.00 | 0.03 | 0.04 | 0.07 | 0.16 | 0.00 |
| 1.00 | 75.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.97 | 0.98 | 0.99 | 1.00 | 0.00 | 0.03 | 0.04 | 0.07 | 0.16 | 0.00 |
| 1.00 | 100.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.97 | 0.98 | 0.99 | 1.00 | 0.00 | 0.03 | 0.04 | 0.07 | 0.16 | 0.00 |
| 1.00 | 1.00 | 0.25 | 1.00 | 1.00 | 0.95 | 0.97 | 0.98 | 0.98 | 1.00 | 0.00 | 0.03 | 0.05 | 0.07 | 0.15 | 0.00 |
| 1.00 | 1.00 | 0.50 | 1.00 | 1.00 | 0.94 | 0.97 | 0.98 | 0.98 | 1.00 | 0.00 | 0.03 | 0.06 | 0.08 | 0.24 | 0.00 |
| 1.00 | 1.00 | 0.75 | 1.00 | 1.00 | 0.94 | 0.97 | 0.98 | 0.98 | 1.00 | 0.00 | 0.03 | 0.05 | 0.08 | 0.24 | 0.00 |
| 1.00 | 1.00 | 25.00 | 1.00 | 1.00 | 0.95 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.03 | 0.05 | 0.11 | 0.00 |
| 1.00 | 1.00 | 50.00 | 1.00 | 1.00 | 0.95 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.03 | 0.05 | 0.12 | 0.00 |
| 1.00 | 1.00 | 75.00 | 1.00 | 1.00 | 0.96 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.04 | 0.05 | 0.12 | 0.00 |
| 1.00 | 1.00 | 100.00 | 1.00 | 1.00 | 0.96 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.03 | 0.05 | 0.12 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.25 | 1.00 | 0.96 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.03 | 0.05 | 0.10 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.96 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.03 | 0.05 | 0.10 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.75 | 1.00 | 0.96 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.03 | 0.05 | 0.10 | 0.00 |
| 1.00 | 1.00 | 1.00 | 25.00 | 1.00 | 0.65 | 0.68 | 0.70 | 0.74 | 0.79 | 2.45 | 6.02 | 8.14 | 8.83 | 9.66 | 0.00 |
| 1.00 | 1.00 | 1.00 | 50.00 | 1.00 | 0.39 | 0.45 | 0.47 | 0.49 | 0.54 | 19.20 | 23.18 | 24.37 | 28.19 | 35.48 | 0.00 |
| 1.00 | 1.00 | 1.00 | 75.00 | 1.00 | 0.13 | 0.17 | 0.18 | 0.20 | 0.27 | 49.54 | 58.68 | 62.01 | 64.68 | 68.03 | 0.00 |
| 1.00 | 1.00 | 1.00 | 100.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 86.66 | 90.65 | 92.53 | 94.90 | 100.84 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.25 | 0.96 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.04 | 0.06 | 0.13 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 0.96 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.04 | 0.06 | 0.13 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.75 | 0.96 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.04 | 0.06 | 0.13 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 25.00 | 0.95 | 0.97 | 0.98 | 0.98 | 1.00 | 0.00 | 0.03 | 0.04 | 0.06 | 0.11 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 50.00 | 0.95 | 0.97 | 0.98 | 0.98 | 1.00 | 0.00 | 0.03 | 0.04 | 0.06 | 0.11 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 75.00 | 0.95 | 0.97 | 0.98 | 0.98 | 1.00 | 0.00 | 0.03 | 0.04 | 0.06 | 0.11 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 0.95 | 0.97 | 0.98 | 0.98 | 1.00 | 0.00 | 0.03 | 0.04 | 0.06 | 0.11 | 0.00 |

Table 10: Simulation results for issue 5, with $p_{true} = 0.5$, $p_1 = 0.5$, $p_2 = 0$.

| | | | | | Accuracy | | | | | Av. Num Days | | | | | % Timeouts |
|----------|---------|----------|----------|----------|----------|------|------|------|------|--------------|-------|-------|-------|--------|------------|
| α | β | γ | δ | ω | min | q1 | med | q3 | max | min | q1 | med | q3 | max | |
| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.04 | 0.05 | 0.08 | 0.18 | 0.00 |
| 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 0.92 | 0.94 | 0.95 | 0.96 | 0.98 | 0.05 | 0.13 | 0.16 | 0.19 | 0.27 | 0.00 |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.93 | 0.95 | 0.96 | 0.96 | 0.99 | 0.03 | 0.09 | 0.11 | 0.14 | 0.23 | 0.00 |
| 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 0.93 | 0.95 | 0.96 | 0.97 | 0.99 | 0.03 | 0.08 | 0.10 | 0.13 | 0.22 | 0.00 |
| 25.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.75 | 1.00 | 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 1.00 | 25.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.99 | 0.01 | 0.05 | 0.07 | 0.09 | 0.18 | 0.00 |
| 1.00 | 50.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.99 | 0.01 | 0.05 | 0.07 | 0.09 | 0.17 | 0.00 |
| 1.00 | 75.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.99 | 0.01 | 0.05 | 0.07 | 0.09 | 0.17 | 0.00 |
| 1.00 | 100.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.99 | 0.01 | 0.05 | 0.07 | 0.09 | 0.17 | 0.00 |
| 1.00 | 1.00 | 0.25 | 1.00 | 1.00 | 0.95 | 0.96 | 0.97 | 0.98 | 0.99 | 0.02 | 0.05 | 0.07 | 0.09 | 0.17 | 0.00 |
| 1.00 | 1.00 | 0.50 | 1.00 | 1.00 | 0.94 | 0.96 | 0.97 | 0.97 | 0.99 | 0.02 | 0.05 | 0.08 | 0.11 | 0.19 | 0.00 |
| 1.00 | 1.00 | 0.75 | 1.00 | 1.00 | 0.94 | 0.96 | 0.97 | 0.97 | 0.99 | 0.02 | 0.05 | 0.08 | 0.11 | 0.18 | 0.00 |
| 1.00 | 1.00 | 25.00 | 1.00 | 1.00 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.04 | 0.05 | 0.08 | 0.13 | 0.00 |
| 1.00 | 1.00 | 50.00 | 1.00 | 1.00 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.04 | 0.05 | 0.08 | 0.13 | 0.00 |
| 1.00 | 1.00 | 75.00 | 1.00 | 1.00 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.04 | 0.05 | 0.07 | 0.13 | 0.00 |
| 1.00 | 1.00 | 100.00 | 1.00 | 1.00 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.04 | 0.05 | 0.07 | 0.14 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.25 | 1.00 | 0.95 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.04 | 0.05 | 0.07 | 0.16 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.95 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.04 | 0.05 | 0.07 | 0.16 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.75 | 1.00 | 0.95 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.04 | 0.05 | 0.07 | 0.16 | 0.00 |
| 1.00 | 1.00 | 1.00 | 25.00 | 1.00 | 0.65 | 0.67 | 0.69 | 0.72 | 0.78 | 2.45 | 6.14 | 8.31 | 8.91 | 9.94 | 0.00 |
| 1.00 | 1.00 | 1.00 | 50.00 | 1.00 | 0.39 | 0.44 | 0.47 | 0.48 | 0.54 | 19.18 | 23.21 | 24.43 | 28.36 | 35.52 | 0.00 |
| 1.00 | 1.00 | 1.00 | 75.00 | 1.00 | 0.13 | 0.16 | 0.18 | 0.20 | 0.27 | 47.26 | 58.67 | 62.01 | 64.57 | 68.05 | 0.00 |
| 1.00 | 1.00 | 1.00 | 100.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 86.66 | 90.65 | 92.53 | 94.90 | 100.84 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.25 | 0.95 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.04 | 0.05 | 0.08 | 0.16 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 0.95 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.04 | 0.05 | 0.08 | 0.16 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.75 | 0.95 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.04 | 0.05 | 0.08 | 0.16 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 25.00 | 0.94 | 0.96 | 0.97 | 0.97 | 0.99 | 0.01 | 0.04 | 0.06 | 0.09 | 0.20 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 50.00 | 0.94 | 0.96 | 0.97 | 0.97 | 0.99 | 0.01 | 0.04 | 0.06 | 0.09 | 0.20 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 75.00 | 0.94 | 0.96 | 0.97 | 0.97 | 0.99 | 0.01 | 0.04 | 0.06 | 0.09 | 0.20 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 0.94 | 0.96 | 0.97 | 0.97 | 0.99 | 0.01 | 0.04 | 0.06 | 0.09 | 0.20 | 0.00 |

Table 11: Simulation results for issue 5, with $p_{true} = 0.5$, $p_1 = 0.75$, $p_2 = 0$.

| | | | | | Accuracy | | | | | Av. Num Days | | | | | % Timeouts |
|----------|---------|----------|----------|----------|----------|------|------|------|------|--------------|-------|-------|-------|--------|------------|
| α | β | γ | δ | ω | min | q1 | med | q3 | max | min | q1 | med | q3 | max | |
| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.96 | 0.97 | 0.99 | 0.02 | 0.05 | 0.08 | 0.10 | 0.22 | 0.00 |
| 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 0.90 | 0.92 | 0.94 | 0.94 | 0.97 | 0.06 | 0.16 | 0.20 | 0.23 | 0.37 | 0.00 |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.91 | 0.94 | 0.94 | 0.95 | 0.98 | 0.03 | 0.11 | 0.15 | 0.18 | 0.29 | 0.00 |
| 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 0.91 | 0.94 | 0.95 | 0.96 | 0.98 | 0.03 | 0.11 | 0.13 | 0.17 | 0.29 | 0.00 |
| 25.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.75 | 1.00 | 1.00 | 1.00 | 0.99 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 1.00 | 25.00 | 1.00 | 1.00 | 1.00 | 0.93 | 0.95 | 0.96 | 0.97 | 0.99 | 0.02 | 0.07 | 0.09 | 0.11 | 0.18 | 0.00 |
| 1.00 | 50.00 | 1.00 | 1.00 | 1.00 | 0.93 | 0.95 | 0.96 | 0.97 | 0.99 | 0.02 | 0.07 | 0.09 | 0.11 | 0.18 | 0.00 |
| 1.00 | 75.00 | 1.00 | 1.00 | 1.00 | 0.93 | 0.95 | 0.96 | 0.97 | 0.99 | 0.02 | 0.07 | 0.09 | 0.11 | 0.18 | 0.00 |
| 1.00 | 100.00 | 1.00 | 1.00 | 1.00 | 0.93 | 0.95 | 0.96 | 0.97 | 0.99 | 0.02 | 0.07 | 0.09 | 0.11 | 0.18 | 0.00 |
| 1.00 | 1.00 | 0.25 | 1.00 | 1.00 | 0.94 | 0.96 | 0.96 | 0.97 | 0.99 | 0.02 | 0.06 | 0.08 | 0.10 | 0.15 | 0.00 |
| 1.00 | 1.00 | 0.50 | 1.00 | 1.00 | 0.93 | 0.95 | 0.96 | 0.96 | 0.99 | 0.02 | 0.09 | 0.11 | 0.14 | 0.24 | 0.00 |
| 1.00 | 1.00 | 0.75 | 1.00 | 1.00 | 0.94 | 0.95 | 0.96 | 0.96 | 0.99 | 0.02 | 0.08 | 0.10 | 0.14 | 0.27 | 0.00 |
| 1.00 | 1.00 | 25.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.97 | 0.97 | 0.99 | 0.02 | 0.05 | 0.06 | 0.09 | 0.16 | 0.00 |
| 1.00 | 1.00 | 50.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.97 | 0.97 | 0.98 | 0.02 | 0.05 | 0.07 | 0.09 | 0.17 | 0.00 |
| 1.00 | 1.00 | 75.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.97 | 0.97 | 0.99 | 0.02 | 0.05 | 0.06 | 0.09 | 0.16 | 0.00 |
| 1.00 | 1.00 | 100.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.97 | 0.97 | 0.99 | 0.01 | 0.05 | 0.06 | 0.09 | 0.17 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.25 | 1.00 | 0.94 | 0.96 | 0.97 | 0.97 | 0.99 | 0.01 | 0.05 | 0.07 | 0.10 | 0.17 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.94 | 0.96 | 0.97 | 0.97 | 0.99 | 0.01 | 0.05 | 0.07 | 0.10 | 0.17 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.75 | 1.00 | 0.94 | 0.96 | 0.96 | 0.97 | 0.99 | 0.01 | 0.05 | 0.07 | 0.10 | 0.17 | 0.00 |
| 1.00 | 1.00 | 1.00 | 25.00 | 1.00 | 0.63 | 0.67 | 0.68 | 0.72 | 0.77 | 2.48 | 6.19 | 8.36 | 8.97 | 9.98 | 0.00 |
| 1.00 | 1.00 | 1.00 | 50.00 | 1.00 | 0.38 | 0.44 | 0.46 | 0.48 | 0.53 | 19.20 | 23.26 | 24.46 | 28.53 | 35.56 | 0.00 |
| 1.00 | 1.00 | 1.00 | 75.00 | 1.00 | 0.12 | 0.16 | 0.18 | 0.20 | 0.26 | 49.58 | 58.88 | 62.16 | 64.73 | 68.05 | 0.00 |
| 1.00 | 1.00 | 1.00 | 100.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 86.66 | 90.65 | 92.53 | 94.90 | 100.84 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.25 | 0.94 | 0.96 | 0.96 | 0.97 | 0.99 | 0.02 | 0.05 | 0.07 | 0.10 | 0.18 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 0.94 | 0.96 | 0.96 | 0.97 | 0.99 | 0.02 | 0.05 | 0.07 | 0.10 | 0.18 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.75 | 0.94 | 0.96 | 0.96 | 0.97 | 0.99 | 0.02 | 0.05 | 0.07 | 0.10 | 0.18 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 25.00 | 0.94 | 0.95 | 0.96 | 0.97 | 0.99 | 0.02 | 0.06 | 0.08 | 0.10 | 0.18 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 50.00 | 0.94 | 0.95 | 0.96 | 0.97 | 0.99 | 0.02 | 0.06 | 0.08 | 0.10 | 0.18 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 75.00 | 0.94 | 0.95 | 0.96 | 0.97 | 0.99 | 0.02 | 0.06 | 0.08 | 0.10 | 0.18 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 0.94 | 0.95 | 0.96 | 0.97 | 0.99 | 0.02 | 0.06 | 0.08 | 0.10 | 0.18 | 0.00 |

Table 12: Simulation results for issue 5, with $p_{true} = 0.5$, $p_1 = 1$, $p_2 = 0$.

| | | | | | Accuracy | | | | | Av. Num Days | | | | | % Timeouts |
|----------|---------|----------|----------|----------|----------|------|------|------|------|--------------|-------|-------|-------|-------|------------|
| α | β | γ | δ | ω | min | q1 | med | q3 | max | min | q1 | med | q3 | max | |
| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.98 | 0.98 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.05 | 0.00 |
| 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.97 | 0.98 | 0.98 | 0.99 | 0.02 | 0.04 | 0.05 | 0.07 | 0.12 | 0.00 |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.02 | 0.04 | 0.11 | 0.00 |
| 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 0.96 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.02 | 0.04 | 0.10 | 0.00 |
| 25.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 25.00 | 1.00 | 1.00 | 1.00 | 0.97 | 0.98 | 0.99 | 1.00 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.07 | 0.00 |
| 1.00 | 50.00 | 1.00 | 1.00 | 1.00 | 0.97 | 0.98 | 0.99 | 1.00 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.07 | 0.00 |
| 1.00 | 75.00 | 1.00 | 1.00 | 1.00 | 0.97 | 0.98 | 0.99 | 1.00 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.07 | 0.00 |
| 1.00 | 100.00 | 1.00 | 1.00 | 1.00 | 0.97 | 0.98 | 0.99 | 1.00 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.07 | 0.00 |
| 1.00 | 1.00 | 0.25 | 1.00 | 1.00 | 0.97 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.08 | 0.00 |
| 1.00 | 1.00 | 0.50 | 1.00 | 1.00 | 0.97 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.04 | 0.08 | 0.00 |
| 1.00 | 1.00 | 0.75 | 1.00 | 1.00 | 0.97 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.04 | 0.08 | 0.00 |
| 1.00 | 1.00 | 25.00 | 1.00 | 1.00 | 0.98 | 0.98 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.07 | 0.00 |
| 1.00 | 1.00 | 50.00 | 1.00 | 1.00 | 0.98 | 0.98 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.07 | 0.00 |
| 1.00 | 1.00 | 75.00 | 1.00 | 1.00 | 0.98 | 0.98 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.04 | 0.00 |
| 1.00 | 1.00 | 100.00 | 1.00 | 1.00 | 0.98 | 0.98 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.07 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.25 | 1.00 | 0.98 | 0.99 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.05 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.98 | 0.99 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.05 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.75 | 1.00 | 0.98 | 0.99 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.05 | 0.00 |
| 1.00 | 1.00 | 1.00 | 25.00 | 1.00 | 0.77 | 0.82 | 0.83 | 0.84 | 0.86 | 1.95 | 2.39 | 2.55 | 2.70 | 4.67 | 0.00 |
| 1.00 | 1.00 | 1.00 | 50.00 | 1.00 | 0.56 | 0.62 | 0.65 | 0.67 | 0.70 | 9.01 | 10.20 | 10.69 | 14.24 | 19.63 | 0.00 |
| 1.00 | 1.00 | 1.00 | 75.00 | 1.00 | 0.33 | 0.40 | 0.42 | 0.45 | 0.50 | 22.16 | 25.48 | 31.12 | 32.45 | 41.10 | 0.00 |
| 1.00 | 1.00 | 1.00 | 100.00 | 1.00 | 0.17 | 0.18 | 0.22 | 0.25 | 0.32 | 41.19 | 52.24 | 55.60 | 62.90 | 66.25 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.25 | 0.98 | 0.98 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.05 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 0.98 | 0.98 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.05 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.75 | 0.98 | 0.98 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.05 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 25.00 | 0.97 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.05 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 50.00 | 0.97 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.05 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 75.00 | 0.97 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.05 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 0.97 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.05 | 0.00 |

Table 13: Simulation results for issue 5, with $p_{true} = 0.7$, $p_1 = 0.25$, $p_2 = 0$.

| | | | | | Accuracy | | | | | Av. Num Days | | | | | % Timeouts |
|----------|---------|----------|----------|----------|----------|------|------|------|------|--------------|-------|-------|-------|-------|------------|
| α | β | γ | δ | ω | min | q1 | med | q3 | max | min | q1 | med | q3 | max | |
| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.02 | 0.03 | 0.08 | 0.00 |
| 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.99 | 0.03 | 0.06 | 0.08 | 0.09 | 0.14 | 0.00 |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.97 | 0.97 | 0.98 | 1.00 | 0.01 | 0.04 | 0.05 | 0.06 | 0.11 | 0.00 |
| 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.97 | 0.97 | 0.98 | 1.00 | 0.01 | 0.03 | 0.05 | 0.06 | 0.11 | 0.00 |
| 25.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 25.00 | 1.00 | 1.00 | 1.00 | 0.96 | 0.98 | 0.98 | 0.98 | 1.00 | 0.00 | 0.02 | 0.03 | 0.04 | 0.09 | 0.00 |
| 1.00 | 50.00 | 1.00 | 1.00 | 1.00 | 0.96 | 0.98 | 0.98 | 0.98 | 1.00 | 0.00 | 0.02 | 0.03 | 0.04 | 0.09 | 0.00 |
| 1.00 | 75.00 | 1.00 | 1.00 | 1.00 | 0.96 | 0.98 | 0.98 | 0.98 | 1.00 | 0.00 | 0.02 | 0.03 | 0.04 | 0.09 | 0.00 |
| 1.00 | 100.00 | 1.00 | 1.00 | 1.00 | 0.96 | 0.98 | 0.98 | 0.98 | 1.00 | 0.00 | 0.02 | 0.03 | 0.04 | 0.09 | 0.00 |
| 1.00 | 1.00 | 0.25 | 1.00 | 1.00 | 0.97 | 0.97 | 0.98 | 0.98 | 1.00 | 0.00 | 0.03 | 0.04 | 0.06 | 0.09 | 0.00 |
| 1.00 | 1.00 | 0.50 | 1.00 | 1.00 | 0.95 | 0.97 | 0.98 | 0.98 | 1.00 | 0.00 | 0.03 | 0.04 | 0.06 | 0.13 | 0.00 |
| 1.00 | 1.00 | 0.75 | 1.00 | 1.00 | 0.95 | 0.97 | 0.98 | 0.98 | 1.00 | 0.00 | 0.03 | 0.04 | 0.06 | 0.13 | 0.00 |
| 1.00 | 1.00 | 25.00 | 1.00 | 1.00 | 0.97 | 0.98 | 0.98 | 0.98 | 1.00 | 0.00 | 0.02 | 0.02 | 0.03 | 0.08 | 0.00 |
| 1.00 | 1.00 | 50.00 | 1.00 | 1.00 | 0.97 | 0.98 | 0.98 | 0.98 | 1.00 | 0.00 | 0.02 | 0.02 | 0.03 | 0.08 | 0.00 |
| 1.00 | 1.00 | 75.00 | 1.00 | 1.00 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.02 | 0.03 | 0.07 | 0.00 |
| 1.00 | 1.00 | 100.00 | 1.00 | 1.00 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.02 | 0.03 | 0.05 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.25 | 1.00 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.02 | 0.04 | 0.08 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.02 | 0.04 | 0.08 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.75 | 1.00 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.02 | 0.04 | 0.08 | 0.00 |
| 1.00 | 1.00 | 1.00 | 25.00 | 1.00 | 0.76 | 0.81 | 0.82 | 0.83 | 0.85 | 1.95 | 2.41 | 2.55 | 2.71 | 4.87 | 0.00 |
| 1.00 | 1.00 | 1.00 | 50.00 | 1.00 | 0.54 | 0.61 | 0.65 | 0.66 | 0.69 | 9.03 | 10.28 | 10.77 | 14.58 | 19.66 | 0.00 |
| 1.00 | 1.00 | 1.00 | 75.00 | 1.00 | 0.34 | 0.40 | 0.42 | 0.44 | 0.50 | 22.16 | 30.03 | 31.25 | 32.54 | 40.18 | 0.00 |
| 1.00 | 1.00 | 1.00 | 100.00 | 1.00 | 0.17 | 0.18 | 0.21 | 0.25 | 0.32 | 41.19 | 52.26 | 57.01 | 62.95 | 66.25 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.25 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.02 | 0.03 | 0.08 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.02 | 0.03 | 0.08 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.75 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.02 | 0.03 | 0.08 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 25.00 | 0.97 | 0.98 | 0.98 | 0.98 | 1.00 | 0.00 | 0.02 | 0.03 | 0.04 | 0.08 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 50.00 | 0.97 | 0.98 | 0.98 | 0.98 | 1.00 | 0.00 | 0.02 | 0.03 | 0.04 | 0.08 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 75.00 | 0.97 | 0.98 | 0.98 | 0.98 | 1.00 | 0.00 | 0.02 | 0.03 | 0.04 | 0.08 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 0.97 | 0.98 | 0.98 | 0.98 | 1.00 | 0.00 | 0.02 | 0.03 | 0.04 | 0.08 | 0.00 |

Table 14: Simulation results for issue 5, with $p_{true} = 0.7$, $p_1 = 0.5$, $p_2 = 0$.

| | | | | | Accuracy | | | | | Av. Num Days | | | | | % Timeouts |
|----------|---------|----------|----------|----------|----------|------|------|------|------|--------------|-------|-------|-------|-------|------------|
| α | β | γ | δ | ω | min | q1 | med | q3 | max | min | q1 | med | q3 | max | |
| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.04 | 0.05 | 0.10 | 0.00 |
| 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 0.93 | 0.95 | 0.95 | 0.96 | 0.98 | 0.05 | 0.08 | 0.10 | 0.12 | 0.20 | 0.00 |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.93 | 0.95 | 0.96 | 0.97 | 0.98 | 0.03 | 0.06 | 0.07 | 0.10 | 0.17 | 0.00 |
| 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 0.93 | 0.95 | 0.96 | 0.97 | 0.98 | 0.03 | 0.06 | 0.07 | 0.10 | 0.17 | 0.00 |
| 25.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 25.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.04 | 0.06 | 0.12 | 0.00 |
| 1.00 | 50.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.05 | 0.06 | 0.12 | 0.00 |
| 1.00 | 75.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.05 | 0.06 | 0.12 | 0.00 |
| 1.00 | 100.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.05 | 0.06 | 0.12 | 0.00 |
| 1.00 | 1.00 | 0.25 | 1.00 | 1.00 | 0.95 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.04 | 0.05 | 0.06 | 0.11 | 0.00 |
| 1.00 | 1.00 | 0.50 | 1.00 | 1.00 | 0.94 | 0.96 | 0.97 | 0.98 | 0.99 | 0.01 | 0.05 | 0.07 | 0.09 | 0.15 | 0.00 |
| 1.00 | 1.00 | 0.75 | 1.00 | 1.00 | 0.94 | 0.96 | 0.97 | 0.97 | 0.99 | 0.01 | 0.05 | 0.07 | 0.09 | 0.15 | 0.00 |
| 1.00 | 1.00 | 25.00 | 1.00 | 1.00 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.04 | 0.05 | 0.10 | 0.00 |
| 1.00 | 1.00 | 50.00 | 1.00 | 1.00 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.04 | 0.05 | 0.10 | 0.00 |
| 1.00 | 1.00 | 75.00 | 1.00 | 1.00 | 0.95 | 0.97 | 0.98 | 0.98 | 0.99 | 0.01 | 0.03 | 0.03 | 0.04 | 0.09 | 0.00 |
| 1.00 | 1.00 | 100.00 | 1.00 | 1.00 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.03 | 0.05 | 0.10 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.25 | 1.00 | 0.95 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.04 | 0.05 | 0.09 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.04 | 0.05 | 0.09 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.75 | 1.00 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.04 | 0.05 | 0.10 | 0.00 |
| 1.00 | 1.00 | 1.00 | 25.00 | 1.00 | 0.75 | 0.80 | 0.81 | 0.82 | 0.85 | 2.00 | 2.42 | 2.56 | 2.72 | 4.68 | 0.00 |
| 1.00 | 1.00 | 1.00 | 50.00 | 1.00 | 0.55 | 0.60 | 0.63 | 0.65 | 0.68 | 9.17 | 10.32 | 10.91 | 14.75 | 19.65 | 0.00 |
| 1.00 | 1.00 | 1.00 | 75.00 | 1.00 | 0.32 | 0.40 | 0.42 | 0.43 | 0.49 | 22.17 | 30.05 | 31.44 | 32.82 | 41.12 | 0.00 |
| 1.00 | 1.00 | 1.00 | 100.00 | 1.00 | 0.15 | 0.17 | 0.20 | 0.24 | 0.32 | 41.19 | 52.42 | 60.51 | 62.99 | 66.25 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.25 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.04 | 0.05 | 0.09 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.04 | 0.05 | 0.09 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.75 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.04 | 0.05 | 0.09 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 25.00 | 0.95 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.04 | 0.05 | 0.09 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 50.00 | 0.95 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.04 | 0.05 | 0.09 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 75.00 | 0.95 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.04 | 0.05 | 0.09 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 0.95 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.04 | 0.05 | 0.09 | 0.00 |

Table 15: Simulation results for issue 5, with $p_{true} = 0.7$, $p_1 = 0.75$, $p_2 = 0$.

| | | | | | Accuracy | | | | | Av. Num Days | | | | | % Timeouts |
|----------|---------|----------|----------|----------|----------|------|------|------|------|--------------|-------|-------|-------|-------|------------|
| α | β | γ | δ | ω | min | q1 | med | q3 | max | min | q1 | med | q3 | max | |
| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.98 | 0.03 | 0.04 | 0.05 | 0.07 | 0.11 | 0.00 |
| 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 0.92 | 0.93 | 0.94 | 0.95 | 0.97 | 0.07 | 0.10 | 0.12 | 0.14 | 0.21 | 0.00 |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.93 | 0.94 | 0.95 | 0.96 | 0.97 | 0.04 | 0.08 | 0.09 | 0.12 | 0.17 | 0.00 |
| 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 0.93 | 0.94 | 0.95 | 0.96 | 0.97 | 0.04 | 0.08 | 0.09 | 0.11 | 0.17 | 0.00 |
| 25.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 25.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.96 | 0.97 | 0.98 | 0.03 | 0.05 | 0.06 | 0.08 | 0.12 | 0.00 |
| 1.00 | 50.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.96 | 0.97 | 0.98 | 0.03 | 0.05 | 0.06 | 0.08 | 0.12 | 0.00 |
| 1.00 | 75.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.96 | 0.97 | 0.98 | 0.03 | 0.05 | 0.06 | 0.08 | 0.12 | 0.00 |
| 1.00 | 100.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.96 | 0.97 | 0.98 | 0.03 | 0.05 | 0.06 | 0.08 | 0.12 | 0.00 |
| 1.00 | 1.00 | 0.25 | 1.00 | 1.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.98 | 0.03 | 0.04 | 0.05 | 0.07 | 0.11 | 0.00 |
| 1.00 | 1.00 | 0.50 | 1.00 | 1.00 | 0.94 | 0.95 | 0.95 | 0.96 | 0.98 | 0.03 | 0.07 | 0.09 | 0.10 | 0.15 | 0.00 |
| 1.00 | 1.00 | 0.75 | 1.00 | 1.00 | 0.94 | 0.95 | 0.95 | 0.96 | 0.98 | 0.03 | 0.07 | 0.09 | 0.10 | 0.15 | 0.00 |
| 1.00 | 1.00 | 25.00 | 1.00 | 1.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.98 | 0.03 | 0.04 | 0.05 | 0.06 | 0.10 | 0.00 |
| 1.00 | 1.00 | 50.00 | 1.00 | 1.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.98 | 0.03 | 0.04 | 0.05 | 0.06 | 0.10 | 0.00 |
| 1.00 | 1.00 | 75.00 | 1.00 | 1.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.98 | 0.03 | 0.04 | 0.05 | 0.06 | 0.10 | 0.00 |
| 1.00 | 1.00 | 100.00 | 1.00 | 1.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.98 | 0.02 | 0.04 | 0.05 | 0.06 | 0.10 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.25 | 1.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.98 | 0.03 | 0.04 | 0.05 | 0.06 | 0.10 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.98 | 0.03 | 0.04 | 0.05 | 0.06 | 0.10 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.75 | 1.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.98 | 0.03 | 0.04 | 0.05 | 0.06 | 0.11 | 0.00 |
| 1.00 | 1.00 | 1.00 | 25.00 | 1.00 | 0.75 | 0.79 | 0.80 | 0.82 | 0.83 | 1.98 | 2.42 | 2.57 | 2.73 | 4.68 | 0.00 |
| 1.00 | 1.00 | 1.00 | 50.00 | 1.00 | 0.53 | 0.59 | 0.62 | 0.64 | 0.67 | 9.17 | 10.37 | 10.96 | 14.82 | 19.87 | 0.00 |
| 1.00 | 1.00 | 1.00 | 75.00 | 1.00 | 0.32 | 0.38 | 0.41 | 0.43 | 0.50 | 22.17 | 30.06 | 31.45 | 32.82 | 41.12 | 0.00 |
| 1.00 | 1.00 | 1.00 | 100.00 | 1.00 | 0.16 | 0.17 | 0.19 | 0.24 | 0.28 | 42.62 | 52.59 | 60.51 | 62.96 | 66.25 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.25 | 0.95 | 0.96 | 0.97 | 0.97 | 0.98 | 0.03 | 0.04 | 0.05 | 0.06 | 0.10 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 0.95 | 0.96 | 0.97 | 0.97 | 0.98 | 0.03 | 0.04 | 0.05 | 0.06 | 0.10 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.75 | 0.95 | 0.96 | 0.97 | 0.97 | 0.98 | 0.03 | 0.04 | 0.05 | 0.06 | 0.10 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 25.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.98 | 0.03 | 0.05 | 0.05 | 0.07 | 0.10 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 50.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.98 | 0.03 | 0.05 | 0.05 | 0.07 | 0.10 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 75.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.98 | 0.03 | 0.05 | 0.05 | 0.07 | 0.10 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.98 | 0.03 | 0.05 | 0.05 | 0.07 | 0.10 | 0.00 |

Table 16: Simulation results for issue 5, with $p_{true} = 0.7$, $p_1 = 1$, $p_2 = 0$.

| | | | | | Accuracy | | | | | Av. Num Days | | | | | % Timeouts |
|----------|---------|----------|----------|----------|----------|------|------|------|------|--------------|-------|-------|-------|-------|------------|
| α | β | γ | δ | ω | min | q1 | med | q3 | max | min | q1 | med | q3 | max | |
| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.98 | 0.99 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.00 |
| 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 0.96 | 0.98 | 0.98 | 0.99 | 0.99 | 0.02 | 0.03 | 0.03 | 0.04 | 0.08 | 0.00 |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.96 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.06 | 0.00 |
| 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 0.96 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.06 | 0.00 |
| 25.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 25.00 | 1.00 | 1.00 | 1.00 | 0.97 | 0.99 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.03 | 0.00 |
| 1.00 | 50.00 | 1.00 | 1.00 | 1.00 | 0.97 | 0.99 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.04 | 0.00 |
| 1.00 | 75.00 | 1.00 | 1.00 | 1.00 | 0.97 | 0.99 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.04 | 0.00 |
| 1.00 | 100.00 | 1.00 | 1.00 | 1.00 | 0.97 | 0.99 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.04 | 0.00 |
| 1.00 | 1.00 | 0.25 | 1.00 | 1.00 | 0.96 | 0.99 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.05 | 0.00 |
| 1.00 | 1.00 | 0.50 | 1.00 | 1.00 | 0.96 | 0.99 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.06 | 0.00 |
| 1.00 | 1.00 | 0.75 | 1.00 | 1.00 | 0.97 | 0.99 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.04 | 0.00 |
| 1.00 | 1.00 | 25.00 | 1.00 | 1.00 | 0.98 | 0.99 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.00 |
| 1.00 | 1.00 | 50.00 | 1.00 | 1.00 | 0.98 | 0.99 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.00 |
| 1.00 | 1.00 | 75.00 | 1.00 | 1.00 | 0.98 | 0.99 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.03 | 0.00 |
| 1.00 | 1.00 | 100.00 | 1.00 | 1.00 | 0.98 | 0.99 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.25 | 1.00 | 0.98 | 0.99 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.98 | 0.99 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.75 | 1.00 | 0.98 | 0.99 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.00 |
| 1.00 | 1.00 | 1.00 | 25.00 | 1.00 | 0.83 | 0.84 | 0.85 | 0.85 | 0.86 | 1.78 | 1.96 | 2.04 | 2.13 | 2.33 | 0.00 |
| 1.00 | 1.00 | 1.00 | 50.00 | 1.00 | 0.66 | 0.67 | 0.67 | 0.68 | 0.69 | 9.08 | 9.40 | 9.62 | 9.77 | 10.19 | 0.00 |
| 1.00 | 1.00 | 1.00 | 75.00 | 1.00 | 0.48 | 0.50 | 0.51 | 0.51 | 0.57 | 16.63 | 21.93 | 22.35 | 22.67 | 23.74 | 0.00 |
| 1.00 | 1.00 | 1.00 | 100.00 | 1.00 | 0.33 | 0.34 | 0.35 | 0.40 | 0.49 | 23.56 | 32.71 | 39.50 | 40.35 | 41.40 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.25 | 0.98 | 0.99 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 0.98 | 0.99 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.75 | 0.98 | 0.99 | 0.99 | 1.00 | 1.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 25.00 | 0.98 | 0.99 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.03 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 50.00 | 0.98 | 0.99 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.03 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 75.00 | 0.98 | 0.99 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.03 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 0.98 | 0.99 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.03 | 0.00 |

Table 17: Simulation results for issue 5, with $p_{true} = 0.9$, $p_1 = 0.25$, $p_2 = 0$.

| | | | | | Accuracy | | | | | Av. Num Days | | | | | % Timeouts |
|----------|---------|----------|----------|----------|----------|------|------|------|------|--------------|-------|-------|-------|-------|------------|
| α | β | γ | δ | ω | min | q1 | med | q3 | max | min | q1 | med | q3 | max | |
| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.04 | 0.00 |
| 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.97 | 0.97 | 0.99 | 0.02 | 0.04 | 0.05 | 0.07 | 0.11 | 0.00 |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.04 | 0.05 | 0.08 | 0.00 |
| 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.04 | 0.05 | 0.08 | 0.00 |
| 25.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 25.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.02 | 0.03 | 0.07 | 0.00 |
| 1.00 | 50.00 | 1.00 | 1.00 | 1.00 | 0.96 | 0.97 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.03 | 0.04 | 0.07 | 0.00 |
| 1.00 | 75.00 | 1.00 | 1.00 | 1.00 | 0.96 | 0.97 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.03 | 0.04 | 0.07 | 0.00 |
| 1.00 | 100.00 | 1.00 | 1.00 | 1.00 | 0.96 | 0.97 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.03 | 0.04 | 0.07 | 0.00 |
| 1.00 | 1.00 | 0.25 | 1.00 | 1.00 | 0.96 | 0.97 | 0.98 | 0.99 | 1.00 | 0.00 | 0.02 | 0.03 | 0.04 | 0.07 | 0.00 |
| 1.00 | 1.00 | 0.50 | 1.00 | 1.00 | 0.96 | 0.97 | 0.98 | 0.99 | 0.99 | 0.01 | 0.02 | 0.03 | 0.04 | 0.08 | 0.00 |
| 1.00 | 1.00 | 0.75 | 1.00 | 1.00 | 0.95 | 0.97 | 0.98 | 0.99 | 0.99 | 0.01 | 0.02 | 0.03 | 0.04 | 0.08 | 0.00 |
| 1.00 | 1.00 | 25.00 | 1.00 | 1.00 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.04 | 0.00 |
| 1.00 | 1.00 | 50.00 | 1.00 | 1.00 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.04 | 0.00 |
| 1.00 | 1.00 | 75.00 | 1.00 | 1.00 | 0.97 | 0.98 | 0.99 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.04 | 0.00 |
| 1.00 | 1.00 | 100.00 | 1.00 | 1.00 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.04 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.25 | 1.00 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.04 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.04 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.75 | 1.00 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.04 | 0.00 |
| 1.00 | 1.00 | 1.00 | 25.00 | 1.00 | 0.82 | 0.84 | 0.84 | 0.84 | 0.85 | 1.75 | 1.94 | 2.04 | 2.12 | 2.30 | 0.00 |
| 1.00 | 1.00 | 1.00 | 50.00 | 1.00 | 0.64 | 0.66 | 0.67 | 0.67 | 0.69 | 9.06 | 9.42 | 9.62 | 9.78 | 10.18 | 0.00 |
| 1.00 | 1.00 | 1.00 | 75.00 | 1.00 | 0.48 | 0.49 | 0.50 | 0.51 | 0.58 | 16.62 | 21.99 | 22.34 | 22.66 | 23.75 | 0.00 |
| 1.00 | 1.00 | 1.00 | 100.00 | 1.00 | 0.32 | 0.34 | 0.34 | 0.40 | 0.47 | 23.59 | 32.78 | 39.56 | 40.37 | 41.51 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.25 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.04 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.04 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.75 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.04 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 25.00 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.04 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 50.00 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.04 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 75.00 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.04 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 0.97 | 0.98 | 0.98 | 0.99 | 1.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.04 | 0.00 |

Table 18: Simulation results for issue 5, with $p_{true} = 0.9$, $p_1 = 0.5$, $p_2 = 0$.

| | | | | | Accuracy | | | | | Av. Num Days | | | | | % Timeouts |
|----------|---------|----------|----------|----------|----------|------|------|------|------|--------------|-------|-------|-------|-------|------------|
| α | β | γ | δ | ω | min | q1 | med | q3 | max | min | q1 | med | q3 | max | |
| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.03 | 0.04 | 0.06 | 0.00 |
| 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 0.93 | 0.95 | 0.96 | 0.96 | 0.97 | 0.04 | 0.06 | 0.07 | 0.08 | 0.12 | 0.00 |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.96 | 0.97 | 0.98 | 0.02 | 0.04 | 0.06 | 0.07 | 0.10 | 0.00 |
| 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.96 | 0.97 | 0.98 | 0.02 | 0.04 | 0.06 | 0.07 | 0.10 | 0.00 |
| 25.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 25.00 | 1.00 | 1.00 | 1.00 | 0.96 | 0.97 | 0.97 | 0.97 | 0.99 | 0.01 | 0.03 | 0.04 | 0.05 | 0.07 | 0.00 |
| 1.00 | 50.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.99 | 0.02 | 0.04 | 0.04 | 0.05 | 0.08 | 0.00 |
| 1.00 | 75.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.99 | 0.02 | 0.04 | 0.04 | 0.05 | 0.08 | 0.00 |
| 1.00 | 100.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.96 | 0.97 | 0.97 | 0.99 | 0.02 | 0.04 | 0.04 | 0.05 | 0.08 | 0.00 |
| 1.00 | 1.00 | 0.25 | 1.00 | 1.00 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.04 | 0.04 | 0.08 | 0.00 |
| 1.00 | 1.00 | 0.50 | 1.00 | 1.00 | 0.95 | 0.96 | 0.96 | 0.97 | 0.99 | 0.01 | 0.04 | 0.05 | 0.07 | 0.09 | 0.00 |
| 1.00 | 1.00 | 0.75 | 1.00 | 1.00 | 0.94 | 0.96 | 0.96 | 0.97 | 0.99 | 0.01 | 0.04 | 0.05 | 0.07 | 0.10 | 0.00 |
| 1.00 | 1.00 | 25.00 | 1.00 | 1.00 | 0.96 | 0.97 | 0.98 | 0.98 | 0.99 | 0.01 | 0.03 | 0.03 | 0.04 | 0.04 | 0.00 |
| 1.00 | 1.00 | 50.00 | 1.00 | 1.00 | 0.96 | 0.97 | 0.98 | 0.98 | 0.99 | 0.01 | 0.03 | 0.03 | 0.04 | 0.04 | 0.00 |
| 1.00 | 1.00 | 75.00 | 1.00 | 1.00 | 0.96 | 0.97 | 0.98 | 0.98 | 0.99 | 0.01 | 0.02 | 0.03 | 0.03 | 0.05 | 0.00 |
| 1.00 | 1.00 | 100.00 | 1.00 | 1.00 | 0.96 | 0.97 | 0.98 | 0.98 | 0.99 | 0.01 | 0.02 | 0.03 | 0.03 | 0.05 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.25 | 1.00 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.03 | 0.04 | 0.06 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.03 | 0.04 | 0.06 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.75 | 1.00 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.03 | 0.04 | 0.06 | 0.00 |
| 1.00 | 1.00 | 1.00 | 25.00 | 1.00 | 0.81 | 0.83 | 0.83 | 0.84 | 0.84 | 1.74 | 1.97 | 2.04 | 2.10 | 2.29 | 0.00 |
| 1.00 | 1.00 | 1.00 | 50.00 | 1.00 | 0.64 | 0.66 | 0.66 | 0.67 | 0.68 | 9.07 | 9.47 | 9.63 | 9.78 | 10.08 | 0.00 |
| 1.00 | 1.00 | 1.00 | 75.00 | 1.00 | 0.47 | 0.49 | 0.50 | 0.51 | 0.57 | 16.86 | 21.91 | 22.33 | 22.61 | 23.24 | 0.00 |
| 1.00 | 1.00 | 1.00 | 100.00 | 1.00 | 0.32 | 0.33 | 0.34 | 0.35 | 0.43 | 30.11 | 38.92 | 39.69 | 40.35 | 42.11 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.25 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.03 | 0.04 | 0.06 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.03 | 0.04 | 0.06 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.75 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.03 | 0.04 | 0.06 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 25.00 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.03 | 0.04 | 0.07 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 50.00 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.03 | 0.04 | 0.07 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 75.00 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.03 | 0.04 | 0.07 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 0.01 | 0.03 | 0.03 | 0.04 | 0.07 | 0.00 |

Table 19: Simulation results for issue 5, with $p_{true} = 0.9$, $p_1 = 0.75$, $p_2 = 0$.

| | | | | | Accuracy | | | | | Av. Num Days | | | | | % Timeouts |
|----------|---------|----------|----------|----------|----------|------|------|------|------|--------------|-------|-------|-------|-------|------------|
| α | β | γ | δ | ω | min | q1 | med | q3 | max | min | q1 | med | q3 | max | |
| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.96 | 0.96 | 0.96 | 0.97 | 0.97 | 0.03 | 0.04 | 0.04 | 0.05 | 0.07 | 0.00 |
| 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 0.93 | 0.94 | 0.94 | 0.95 | 0.96 | 0.06 | 0.08 | 0.09 | 0.10 | 0.13 | 0.00 |
| 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 0.93 | 0.95 | 0.95 | 0.95 | 0.96 | 0.04 | 0.07 | 0.07 | 0.08 | 0.12 | 0.00 |
| 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 0.93 | 0.95 | 0.95 | 0.95 | 0.96 | 0.04 | 0.07 | 0.07 | 0.08 | 0.12 | 0.00 |
| 25.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.25 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.50 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.75 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 25.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.96 | 0.96 | 0.97 | 0.04 | 0.05 | 0.05 | 0.06 | 0.10 | 0.00 |
| 1.00 | 50.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.96 | 0.96 | 0.97 | 0.04 | 0.05 | 0.06 | 0.07 | 0.10 | 0.00 |
| 1.00 | 75.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.96 | 0.96 | 0.97 | 0.04 | 0.05 | 0.06 | 0.07 | 0.10 | 0.00 |
| 1.00 | 100.00 | 1.00 | 1.00 | 1.00 | 0.94 | 0.96 | 0.96 | 0.96 | 0.97 | 0.04 | 0.05 | 0.06 | 0.07 | 0.10 | 0.00 |
| 1.00 | 1.00 | 0.25 | 1.00 | 1.00 | 0.96 | 0.96 | 0.97 | 0.97 | 0.97 | 0.03 | 0.03 | 0.04 | 0.04 | 0.07 | 0.00 |
| 1.00 | 1.00 | 0.50 | 1.00 | 1.00 | 0.94 | 0.95 | 0.95 | 0.96 | 0.98 | 0.03 | 0.06 | 0.08 | 0.09 | 0.11 | 0.00 |
| 1.00 | 1.00 | 0.75 | 1.00 | 1.00 | 0.94 | 0.95 | 0.95 | 0.96 | 0.97 | 0.03 | 0.07 | 0.08 | 0.09 | 0.12 | 0.00 |
| 1.00 | 1.00 | 25.00 | 1.00 | 1.00 | 0.96 | 0.96 | 0.97 | 0.97 | 0.98 | 0.03 | 0.04 | 0.04 | 0.04 | 0.06 | 0.00 |
| 1.00 | 1.00 | 50.00 | 1.00 | 1.00 | 0.96 | 0.96 | 0.97 | 0.97 | 0.98 | 0.03 | 0.04 | 0.04 | 0.04 | 0.06 | 0.00 |
| 1.00 | 1.00 | 75.00 | 1.00 | 1.00 | 0.96 | 0.97 | 0.97 | 0.97 | 0.98 | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 | 0.00 |
| 1.00 | 1.00 | 100.00 | 1.00 | 1.00 | 0.96 | 0.97 | 0.97 | 0.97 | 0.98 | 0.02 | 0.03 | 0.04 | 0.04 | 0.06 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.25 | 1.00 | 0.96 | 0.96 | 0.96 | 0.97 | 0.97 | 0.03 | 0.04 | 0.04 | 0.05 | 0.07 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 0.96 | 0.96 | 0.96 | 0.97 | 0.97 | 0.03 | 0.04 | 0.04 | 0.05 | 0.07 | 0.00 |
| 1.00 | 1.00 | 1.00 | 0.75 | 1.00 | 0.96 | 0.96 | 0.96 | 0.97 | 0.97 | 0.03 | 0.04 | 0.04 | 0.05 | 0.07 | 0.00 |
| 1.00 | 1.00 | 1.00 | 25.00 | 1.00 | 0.80 | 0.82 | 0.82 | 0.83 | 0.84 | 1.81 | 1.95 | 2.03 | 2.10 | 2.28 | 0.00 |
| 1.00 | 1.00 | 1.00 | 50.00 | 1.00 | 0.64 | 0.65 | 0.65 | 0.66 | 0.67 | 9.07 | 9.43 | 9.63 | 9.79 | 10.23 | 0.00 |
| 1.00 | 1.00 | 1.00 | 75.00 | 1.00 | 0.47 | 0.49 | 0.49 | 0.50 | 0.51 | 20.23 | 21.94 | 22.38 | 22.71 | 23.76 | 0.00 |
| 1.00 | 1.00 | 1.00 | 100.00 | 1.00 | 0.31 | 0.33 | 0.34 | 0.34 | 0.42 | 30.12 | 39.08 | 39.88 | 40.43 | 42.12 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.25 | 0.96 | 0.96 | 0.96 | 0.97 | 0.97 | 0.03 | 0.04 | 0.04 | 0.05 | 0.07 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.50 | 0.96 | 0.96 | 0.96 | 0.97 | 0.97 | 0.03 | 0.04 | 0.04 | 0.05 | 0.07 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 0.75 | 0.96 | 0.96 | 0.96 | 0.97 | 0.97 | 0.03 | 0.04 | 0.04 | 0.05 | 0.07 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 25.00 | 0.96 | 0.96 | 0.96 | 0.97 | 0.97 | 0.03 | 0.04 | 0.04 | 0.05 | 0.07 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 50.00 | 0.96 | 0.96 | 0.96 | 0.97 | 0.97 | 0.03 | 0.04 | 0.04 | 0.05 | 0.07 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 75.00 | 0.96 | 0.96 | 0.96 | 0.97 | 0.97 | 0.03 | 0.04 | 0.04 | 0.05 | 0.07 | 0.00 |
| 1.00 | 1.00 | 1.00 | 1.00 | 100.00 | 0.96 | 0.96 | 0.96 | 0.97 | 0.97 | 0.03 | 0.04 | 0.04 | 0.05 | 0.07 | 0.00 |

Table 20: Simulation results for issue 5, with $p_{true} = 0.9$, $p_1 = 1$, $p_2 = 0$.